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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/692,628	10/24/2003	Lukas Doerrer	1406/176	8645
25297 7	7590 06/07/2004		EXAMINER	
JENKINS & WILSON, PA		JEAN PIERRE, PEGUY		
3100 TOWER SUITE 1400	BLVD		ART UNIT	PAPER NUMBER
DURHAM, N	C 27707		2819	
			DATE MAILED: 06/07/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

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· · · · · ·		Application No.	Applicant(s)	770			
Office Action Summary		10/692,628	DOERRER ET AL.				
		Examiner	Art Unit				
		Peguy JeanPierre	2819				
Dariad 6	The MAILING DATE of this communication app	ears on the cover sheet with the	correspond nc address				
	or Reply	/ IC CET TO EVOIDE AMONT	I/O) EDOM				
THE - External after - If th - If No - Fail Any	HORTENED STATUTORY PERIOD FOR REPLY MAILING DATE OF THIS COMMUNICATION. ensions of time may be available under the provisions of 37 CFR 1.13 r SIX (6) MONTHS from the mailing date of this communication. e period for reply specified above is less than thirty (30) days, a reply o period for reply is specified above, the maximum statutory period we ure to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to within the statutory minimum of thirty (30) divill apply and will expire SIX (6) MONTHS fro cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. IED (35 U.S.C. § 133).				
Status							
1)[Responsive to communication(s) filed on 24 O	<u>ctober 2003</u> .					
2a)□	☐ This action is FINAL . 2b)☑ This action is non-final.						
3)□	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11,	453 O.G. 213.				
Disposit	tion of Claims						
4)⊠)⊠ Claim(s) <u>1-24</u> is/are pending in the application.						
·	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)□	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-24</u> is/are rejected.						
7)[Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicat	tion Papers						
9)[The specification is objected to by the Examine	r.					
10)🛛	The drawing(s) filed on 24 October 2003 is/are:	a)⊠ accepted or b)□ objecte	ed to by the Examiner.				
	Applicant may not request that any objection to the	drawing(s) be held in abeyance. S	ee 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correct	•	·				
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached Office	e Action or form PTO-152.				
Priority	under 35 U.S.C. § 119						
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)	a) ☐ All b) ☐ Some * c) ☐ None of:						
	1. Certified copies of the priority documents	s have been received.					
	2. Certified copies of the priority documents	s have been received in Applica	ition No				
	3. Copies of the certified copies of the prior		ved in this National Stage				
	application from the International Bureau						
*	See the attached detailed Office action for a list	of the certified copies not receive	/ea.				
Attachme	nt(s)						
	ce of References Cited (PTO-892)	4) Interview Summa					
	ce of Draftsperson's Patent Drawing Review (PTO-948) rmation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)	Paper No(s)/Mail l 5) Notice of Informal	Date Patent Application (PTO-152)				
	er No(s)/Mail Date <u>5/21/2004</u> .	6) Other:	·				

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement filed on 11/21/2003 has been considered.

Specification

3. The specification has not been checked to the extent necessary to determine the presence of all possible typographical and grammatical errors. Applicant cooperation is necessary in correcting any errors he/she may become aware in the application.

Claim Rejections - 35 USC § 112

4. Claims 1-24 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1 and 13, line 6, the term "the number of its resolution levels" is confusing; In addition, line 2 recites a quantizer that generates a digital input signal and line 17 recites a comparator that generates a digital result; it is not clear whether "the digital result output" and "the digital result" are identical since they originate from different sources; the relationship between the quantizer and the comparator is not well established, the inputs and the outputs of both elements are not well defined. Please clarify.

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In claim 1 line 18, the term "the accurate current" lacks antecedent basis. In addition, the term is unclear because one cannot decipher which of the currents previously recited is accurate and why. Please clarify.

In addition, it is not understood how the comparator "decides whether the... is not equal to zero." The comparator compares, does not detect; if it does detect it must be clearly stated how the detection is made.

In claim 2, the term "the analog feedback current" lacks antecedent basis; in addition, in claim 2, the relationship between "the digital result value" (line 2), "the result value" (line 4) is not clear.

In claim 13, line 4 (page 5) the term "the last weighting of the comparators" lacks antecedent basis (note that only a voltage comparator was previously recited); the term "the individual threshold signals" lacks antecedent basis;

In claim 18 line 3 the term "the respective comparator" lacks antecedent basis; line 4, the term "the desired threshold signal" lacks antecedent basis.

In claim 19, line 2, the term "the result bits" lacks antecedent basis.

The claims must be drafted in a clear and concise manner to help the Examiner in determining unambiguously Applicant's invention.

Allowable Subject Matter

5. Claims 1-24 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

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6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peguy JeanPierre whose telephone number is (571) 272-1803. The examiner fax phone number is (571) 273-1803.

Peguy Jean Pierre Primary Examiner